

**ABSTRACT OF THE DISCLOSURE**

A regenerable filter system includes a flow path along which a stream of fluid flows between an inlet and an outlet. A first filtering unit is located in the flow path. The first filter unit includes first and second regenerable filter beds, wherein each bed has a first adsorbent for removing a first contaminant from the fluid stream. A first valve is located between the inlet and the first and second filter beds for selectively directing the fluid stream through one of the first and the second filter beds. The other of the first and second filter beds is removed from the flow path. A second filtering unit is located in the flow path between the first filtering unit and the outlet. The second filtering unit includes third and fourth regenerable filter beds for removing a second contaminant from the stream of fluid. A second valve is located between the first filtering unit and the third and fourth filter beds for selectively directing the stream of fluid through one of the third and fourth filter beds, wherein the other of the third and fourth filter beds is removed from the flow path. A controller operates the first valve such that the stream of fluid is directed through one of the first and second filter beds. The second valve is so operated that the stream of fluid is directed through one of the third and fourth filter beds. The first and second filter beds are cycled independent of one another.

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